

BATHYMETRY & DREDGE PRESENTATION

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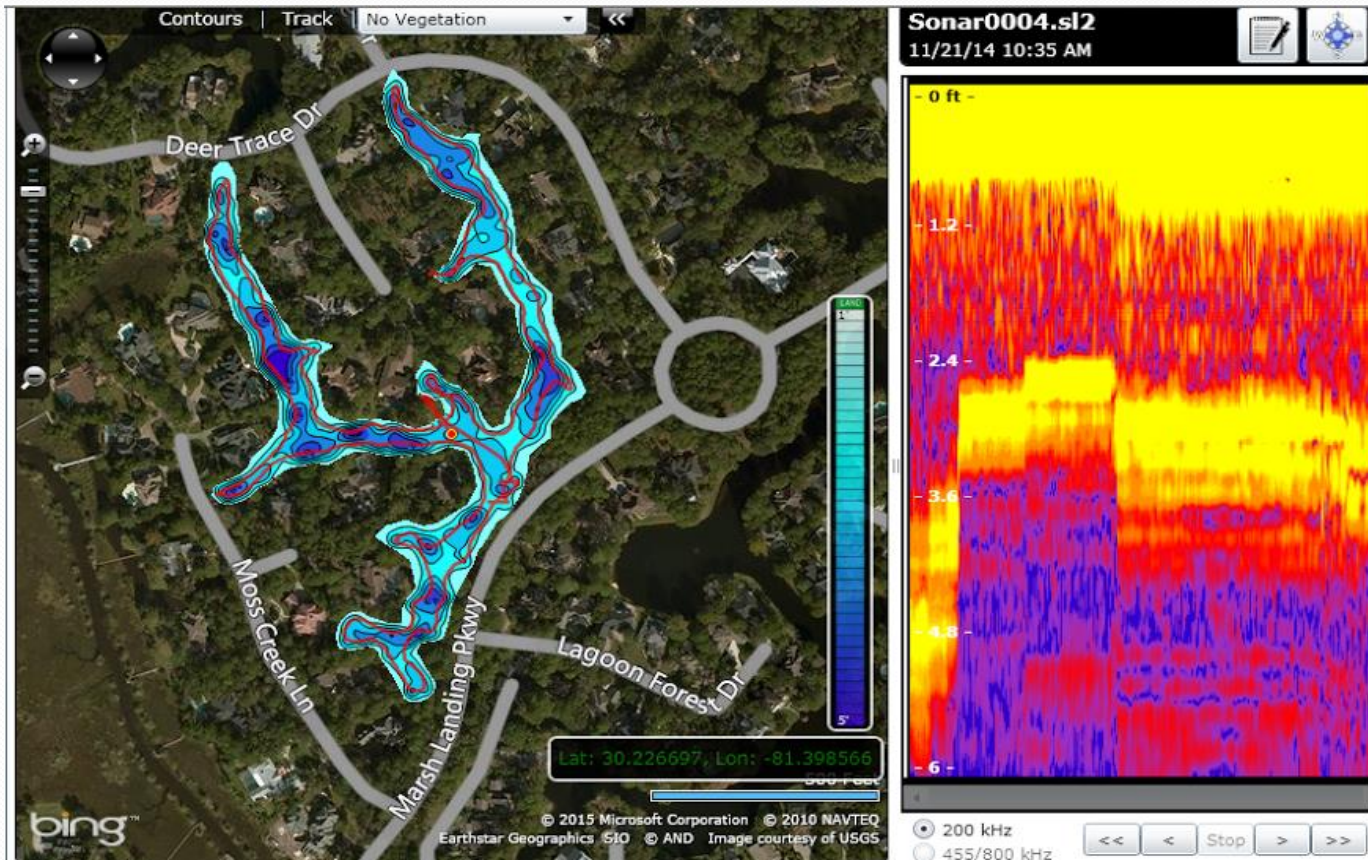


ESTATE MANAGEMENT SERVICES®

Dredging

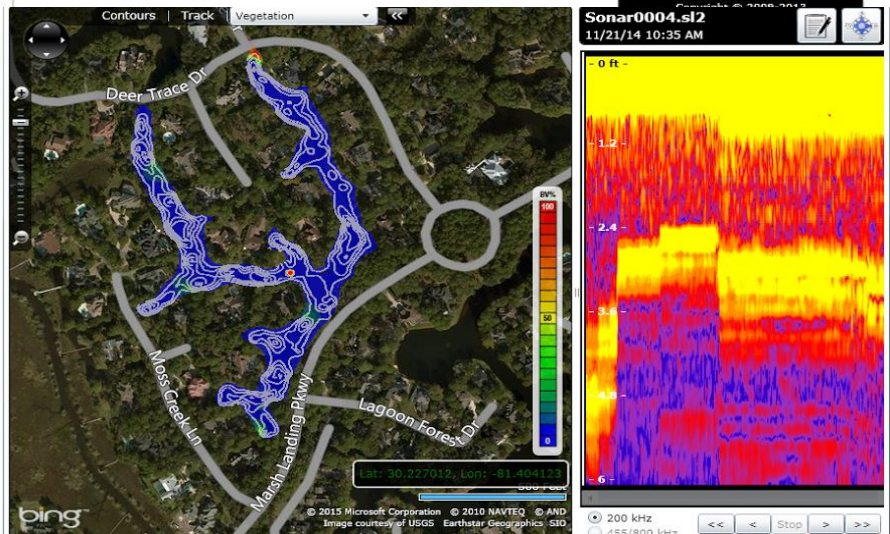
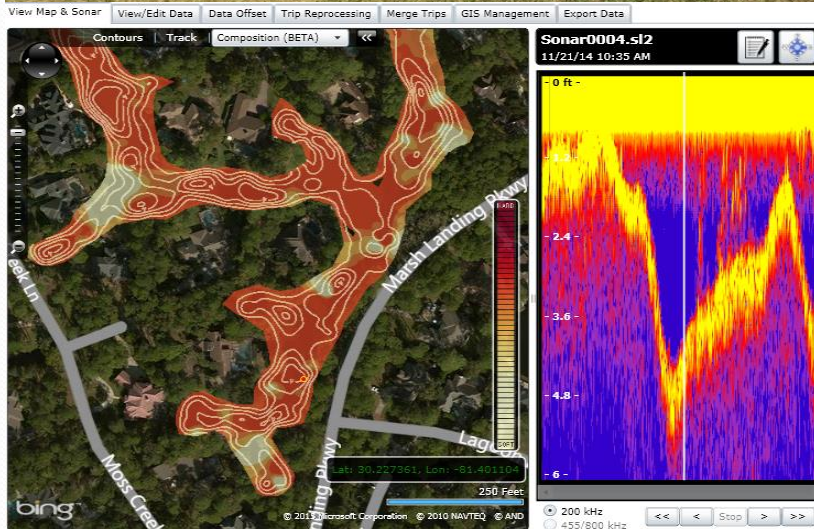
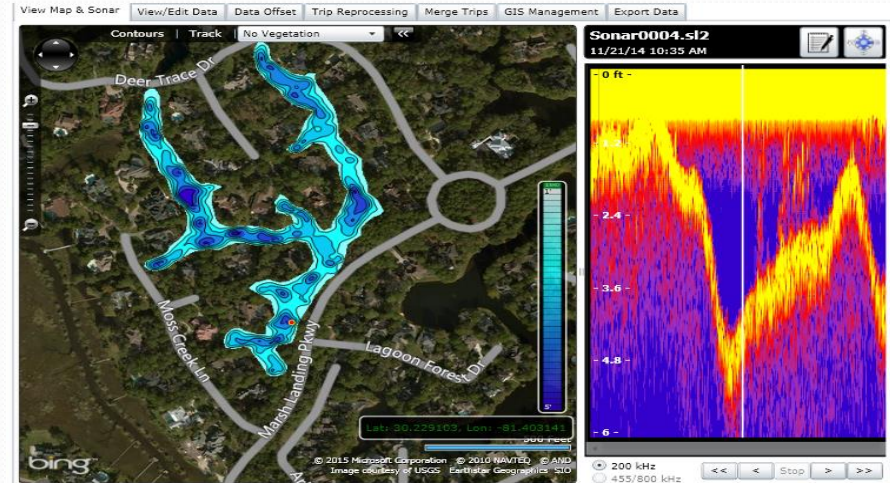
- × Semap Area
- × Bathymetry Map
- × Analytics of data for sediment, volume, & placement
- × Identify Spoil Disposal
- × Permits
- × Dredge Cost
- × 50% deposit, contract, and schedule leads, usually 4-6 weeks
- × Project duration for 5000 cy is about 1 week
- × Dredge

SeMaps



Identify dredge area with measurements

Bathymetry Mapping



Analytics of Data

- × Identify sediment location
- × Identify sediment volume per hardpan location
- × Estimate of sediment to be dredged and approximate spoil volume example.....
 - × 5400cy pre dredge = 810cy dredge spoil

Spoil Disposal

- ✕ Dewatering bags are most common for spoil capture
- ✕ Least expensive option with erosion benefits
- ✕ Example of bags planted with Spartina
- ✕ Example of off-site discharge that is then graded once dry
- ✕ Bag sizes are custom made per project



Permits

- ✕ Generally not required with hydraulic dredge process
- ✕ Critical area dredge permit if salinity of certain volumes present
- ✕ Critical Permit requires engineered plan. Our software program will support if Plan required
- ✕ Local governments are very supportive of our hydraulic process due to foot print and limited disturbance
- ✕ MH4 compliant process for NPDEA storm water permit

Dredge Cost

- ✕ Based on cubic yard volume removed
- ✕ Disposal option
- ✕ Generally priced per Cubic yard
- ✕ Exploration of alternate methods i.e.....excavate

Project Duration

- ✕ Under normal condition we complete about 5,000-6,500cy per week
- ✕ Hours of operation are sun up to sun down
- ✕ 1 day for set up and 1 day for break down
- ✕ Foot print of operation is minimal
- ✕ Transport equipment and dredge are left on site each day

Dredge



Dredge Continued



Questions

